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Amendents to the Claims

Please cancel claims 1-3, 23-24, 26-28 and 30. Please amend claims 4, 25 and 29.

- 1. (Cancelled).
- 2. (Cancelled).
- 3. (Cancelled).
- 4. (Currently Amended) The system of claim 1, A surround-vision display system comprising: a carrier structure having an internal circumferential surface; a motor unit for effecting continuous movement of the internal surface of the carrier structure with respect to an observer located at least partly within a volume defined by the internal surface of the carrier structure; a plurality of light emitting sources disposed as a two-dimensional array on the internal surface of the carrier structure wherein the two-dimensional array of light emitting sources comprises a plurality of panel tiles, each panel tile mounted on a portion of the internal surface and having a two-dimensional sub-array of light emitting light sources mounted on its surface facing away from the internal surface of the carrier structure; and a driver unit for the plurality of light emitting sources for driving each light emitting source depending on its vertical location and its temporary horizontal location.
- 5. (Original) The system of claim 4, wherein all tiles have an identical two-dimensional subarray of light emitting sources.
- 6. (Original) The system of claim 4, wherein each panel tile comprises a plurality of driver elements mounted thereon, with one driver element for each of the light emitting sources of the two-dimensional sub-array.
- 7. (Original) The system of claim 6, wherein the driver elements are mounted on the surface of the panel tile facing the internal surface of the carrier structure.
- 8. (Original) The system of claim 6, wherein, the driver elements comprise pulse-width modulator structures for driving the light emitting sources.
- 9. (Original) The system of claim 4, wherein each panel tile further comprises an I/O unit, a digital signal processor (DSP), and a memory unit for storing frame buffer data.
- 10. (Original) The system of claim 4, wherein the tiles are arranged in one or more daisy chains, with each tile in one daisy chain being arranged as a repeater.
- 11. (Original) The system of claim 9, wherein the surround-vision system further comprises a control unit for supplying control data to the I/O units of the tiles.

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- 12. (Previously Withdrawn) The system of claim 11, wherein the control unit is stationary with respect to the moving internal surface of the carrier structure, and the surround-vision system further comprises a coupling unit for coupling the control data from the control unit to the I/O units of the tiles.
- 13. (Previously Withdrawn) The system of claim 12, wherein the coupling unit comprises a first micro-strip element disposed in a manner such that it moves correspondingly to the internal surface of the carrier structure, and a second, stationary micro-strip element disposed adjacent to a surface of the first, moving micro-strip element and separated by a continuous gap, wherein the first and second micro-strip elements are configured as a hybrid coupler.
- 14. (Previously Withdrawn) The system of claim 1, wherein the light emitting sources include pulse width modulators to control light amplitudes without color shifting.
- 15. (Previously Withdrawn) The system of claim 14, wherein the system further comprises an aperture mask unit for sharpening a light emitting area of each LED.
- 16. (Previously Withdrawn) The system of claim 15, wherein the aperture mask structure comprises a plurality of aperture mask elements, each aperture mask element disposed to reduce the light emitting areas of a group of the LED's.
- 17. (Previously Withdrawn) A pulse-width modulator (PWM) for driving a light emitting diode (LED), comprising: at least two counter elements for operation at different frequencies; a register element associated with each counter element via an associated comparator element, and an AND-gate element fed by the outputs of the comparator elements, whereby the output of the AND-gate provides a PWM driving signal for the light emitting source.
- 18. (Previously Withdrawn) The driver element of claim 17, wherein the light emitting source comprises an LED and duty cycles are varied to effectuate light amplitude changes while avoiding color shifting.
- 19. (Previously Withdrawn) A driver element for an LED, the driver element comprising a pulse-width modulator (PWM) structure for driving the LED, whereby an intensity of the LED is variable without wavelength shifts in the emission from the LED.
- 20. (Previously Withdrawn) A coupling unit for transferring data to and from a moving component, the coupling unit comprising: a first micro-strip element disposed in a manner such that it moves correspondingly to the component; and a second, stationary micro-strip element disposed adjacent to a surface of the first, moving micro-strip element and separated by a

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continuous gap; wherein, the first and second micro-strip elements are configured as a hybrid coupler.

- 21. (Previously Withdrawn) The coupling unit of claim 20, wherein the first and second microstrips are substantially circular and each have a transceiving line cut at one point and configured for transmission signals being fed and/or received signals being drawn from one end of each transceiver line.
- 22. (Previously Withdrawn) The coupling unit of claim 21, wherein at least one of the microstrips has its transceiving line cut at two or more points and further comprises a switch element for switching between the different sections of the transceiving line defined by the cuts in a receiving mode.
- 23. (Cancelled).
- 24. (Cancelled).
- 25. (Currently Amended) The system of claim 23, A surround-vision display system, comprising: a rotatable drum with an inside surface viewable by a user; a plurality of LED's arranged on said inside surface that together rotate in a vertical stack of horizontal circular orbits around said user wherein[[:]] the plurality of LED's are arranged on said panel tiles in a grid set with its rows on an angle with respect to said horizontal circular orbits such that each LED orbits in uniformly spaced parallel circular orbits; a picture-frame pixel distributor connected to supply pixel information to a corresponding one of the plurality of LED's according to its position in said vertical stack and its instantaneous position in its flight in its horizontal circular orbit around said user; and a pulse-width modulator connected to a corresponding one of the plurality of LED's and proving for modulated light intensity levels and minimal color shifts otherwise dependent on LED current levels; wherein, when the LED's and drum are moving, the image projected nevertheless appear to be stationary and a higher apparent resolution results from a limited number of LED's involved.
- 26. (Cancelled).
- 27. (Cancelled).
- 28. (Cancelled).
- 29. (Currently Amended) The method of claim 27, A method of surround-vision display with a very high visual dynamic range, comprising: distributing a limited number of LED's on the inside of a drum and then spinning that drum around a user wherein[[:]] the step of distributing is

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such that several panel tiles are stacked vertically inside [[a]] the drum to all contribute to a whole height of [[the]] a picture frame; wherein, pixel information for each horizontal position in space is sent to each corresponding LED that visits that position; and wherein, even though the LED's and drum are moving, a projected image appears to be relatively stationary.

30. (Cancelled).